App. F. IX-4

1946-47
(Elec)

File No. 42-46
Serial Nos. 4, 6

Previous References.
Elect 114-46 (1, 2)
Elect 107-46 (1, 2)

Later References.
Elect 55-47 (1, 2, 2A, 3)

GENERAL AND REVENUE SECRETARIAT

Serial Nos. Two (2) only

Part B for September '46

SUBJECT

Installing Electric Lights & heating circuit to Col. Crawford Hospital at Sahlespur.

G.O. E & S. 697-99 dt 11-9-'46.

To, The Chief Electrical Engineer
" Comptroller to Govt.
" Auditor, E. D.

Sanctions the estimate for ——

Ar 17/9

Obtaining Electric lights & fittings circuit to Col. Crawford Hospital at Sabaragamuwa

General and Revenue Secretariat | File No. 42 | of 1946 | [App. F. III–2

Serial No.

35/1 E&C&C

Letter No. 6195 dated the 14/23rd August 1946 from the Chief Electrical Engineer

Forwards for technical sanction an estimate for Rs. 16,447/- for the above works.

It is stated that the estimate has already been approved by Govt. in the P.W.D. Submitted for orders.

2) administrative Sanction for the work has already been given from the P.W. Deptt. Technical Sanction in estimate amounting to Rs 16,447/- may be given

Secy) KJ 28/8

3) Technical sanction to the estimate of Rs 16,447 may be accorded. The estimate has been administratively sanctioned already.

Mr P.W & Dewan) KW 28/8/46.

KJ 28/8

4) KW 31/8/46.

5) AHM 3/9

KW 4/9/46.

KJ 4/9

OFFICE OF THE MINISTER FOR PUBLIC WORKS 21 AUG 1946 No. 1722

OFFICE 2 - SEP. 1946 No. 1689

NOTE—Contn. Sheet.

2/ Installing Electric Lights & Heating circuit to Col. Crawford Hospital at Sahiwal

File No. of 194

General and Revenue Secretariat

Serial No. 354 Elect

6) A draft G.O. is put up for approval.

Secy) RJ/6/8

VB 4/9/46

Issue
KW/6/9/46

RJ/6/8

Issued in No EDS 697-99/Elect 42-46-6. dated 11th Sept 1946. To the C. E. E., the Comptroller to Govt and the A.G. Sanctioning the Estimate for Rs 16,447/-

"B"

19/9 12/9

Elect. 42-46-4.

TELEPHONE NO. 2110.

GOVERNMENT OF MYSORE
ELECTRICAL DEPARTMENT

REPLY REFER TO NO. 6195 ENCLO.

Estimate, sketch, in pupl & report.

OFFICE OF THE CHIEF ELECTRICAL ENGINEER

TELEGRAPHIC ADDRESS "GOMED"

Bangalore,.....14th August....19 46.
(MYSORE, S. INDIA.)

CODES USED
BENTLEY'S LIEBER'S.
A. B. C. 6TH EDITION
BUSINESS TELEGRAPH CODE.

28-8-46

SECRETARY TO GOVERNMENT Date 28/8 PWD, ELECTL & RYS

BANGALORE. No. 357 28/8/1946

To

The Secretary
to the Government of Mysore,
Electrical Department, Bangalore.

Sir,

Installing Electric Lights and heating circuit to Col. Crawford Hospital at Sakleshpur.

I have the honour to forward herewith an estimate amounting to Rs.16,447/- for the above work for obtaining and communicating technical sanction of Government. The estimate has already been approved by Government in No.G.O. PW.9043-46/~~SBB~~ B.3-45-131 dated 27th June 1946.

The report and sketch accompanying the estimate explains the provisions made therein.

I have the honour to be,
Sir,
Your most obedient servant,

16/8

Chief Electrical Engineer.

P.T.O.

Auditor's Certificate.

Verified with reference to allocation that is O.B.A.

A certificate to the effect that funds have been reserved for meeting the claims of the Electrical Department as and when they are ~~performed~~ (as per para No.961 M.E.A.C. Vol.II) should be obtained from the concerned officer, Executive Engineer, Hassan Division, Hassan.

D. Venkatasamy

AUDITOR,
Electrical Department.

ESTIMATE

For Modified estimate for installing Electric lights and Heating circuit to Col.Craford Hospital at Sakalespur.

Names of materials, etc.	Unit	Qty.	Rate Rs.	Amount Rs	Remarks
Part I Mains & Main control Board.					
1. Supplying & erecting ascu treated Baliga pole 26 feet long.	No.	1	30- 0- 0	30- 0- 0	✓
2. Supplying fixing and tarring 4-pin single iron arm complete with a set of brace strops, bolts & nuts etc.,	No.	2	10- 0- 0	20- 0- 0	✓
3. Supplying and fixing strain Insulators, using 7 strand guy wire	No.	6	2- 8- 0	15- 0- 0	✓
4. Supplying and fixing guy set complete with, rod, anchor, 7 strand guy wire and turn buckle.	No.	1	20- 0- 0	20- 0- 0	✓
5. Supplying and strining 3 phase overhead line using No.1/0 B&S hard drawn copper wire and accessaries.	Ft.	255	per foot. 0-13- 6	215- 2- 6	✓
6. Supplying and running 3 phase Mains in 2" W.I.pipe with 4 bonds & one Elbow, with suitable draw in junction boxes placed at intervals of 20 ft. embeded in the wall using No. 19/.083 S.W.G.660 volts grade insulated wire, crampets clamps and accessaries.	Ft.	130	per foot. 14- 5- 6	1864-11-0	✓
				2164-13-6	
7. Supplying fixing on an angle iron frame work with tie rods etc. 18" from the wall T.W.Panel Board. 6½ftx4½ft.made of 1" thick plank provided for the full size at both the faces with ¼" compressed cement absestas sheet, and equipped with:-					
a) one T.P.S.T. knife switch on slate base, with fuse arrangements and 200 amps. Renewable cartridge fuses, for the Main control of the Heating circuit , enclosed in a teak wood box with glass front and interior lined with compressed cement asbestas sheet ¼" thick, and lock & key.					
b) One T.P.S.T. Iron-clad switch with fuses 60 amps. for the Heating distribution of the Main Block.					
c) One T.P.S.T. Iron clad switch with fuses 60 amps. for the lighting Mains.					
d) Three, Iron clad S.P.cutouts with fuses 100 amps. for the sub main of the Heating circuit to the rear wing.					

2164-3-[illegible]

e) Two Iron clad S.P.cutouts with fuses, 30 amps.of the sub main of the lighting circuits to the rear wing.

f) Four Iron clad D.P.S.T.switches with fuses 15 amps.for the lighting distribution of the main block

g) Three Iron clad D.P.S.T.switches with fuses 30 amps.for the Heating distribution of the main block.

h) Two pilot lamps 20 watts 220V.B.C protected by a S.P.fuse unit each, and controlled by 5 amp.single pole tumbler switches, on the Main circuit, and providing three sets of 3 phase copper Bus of the section 1½"x1/8" and 1"x1/8" tinned, for the Heating and lighting distribution respectivelyx at the rear of the panel board, with suitable insulated supports and wiring using Nos.19/.083, 7/.064, 7/.044, 7/.036 and 3/.036 S.W.G. insulated wires 600 volts grade and accessaries and providing shutter panelled with compressed cement abbestas at one end and lock & key. 1 850-0-0 850-0-0

8. Earthing the Main piping, switch gear etc. providing a ground bus at the rear of the panel, (copper tape tinned 1"x1/16") to connect up all the I.C.cutouts, switches etc., and No.6 B&S tinned copper wire clamps, bolts and Nuts and accessaries. 2 55-0-0 110-0-0

3,124-13-6

Part II Sub mains, Sub control Board etc.,

1. Supplying & running single phase sub mains from the Main control board in T.W. casing 2"x1" treated with 2 coats of shellac varnish using No.7/.064 S.W.G. insulated wire 660volts grade and accessaries (for the lighting of the rear wing). At the Main block & at the rear wing. 115ft & 5ft. = 120 ft. per ft. 1-5-0 157-8-0

2. -do- -do- 3 phase submains from the Main control Board in 3-way T.W. casing 5"x1½" treated with 2 coats of Shellac varnish using No.19/.083 S.W.G. 660 volts grade insulated wire and accessaires (for the Heating of the rear wing)
At the Main block ---
At the rear wing. --
115 + 5 = 120ft. 7-0-0 840-0-0

3. -do- -do- 3 phase sub Mains in 2 W.I.pipe with 2 bends, and

997-8-0

997.8 v.

	and one Elbow, clamps etc.,using No. 19/.083 S.W.G.660volts grade insulated wire and accessaries.				
	At the Main block ... 25 ℄ At the rear wing ... 25 ℄	Ft.	50	per ft. 14-0-0	700-0-0
4.	-do- -do- single phase sub Main in 1" H.G. Braized conduit with 2 bends, one elbow, clamps etc., using No.7/.064 S.W.G.660 volts grade insulated wire and acce-saires.				
	At the Main block ... 25 ℄ At the rear wing ... 25 ℄	Ft.	50	per ft. 2-12-0	137-8-0
5.	Supplying & erecting Ascu treated Baliga pole 26 ft. long.	No.	3	30-0-0	90-0-0
6.	-do- fixing and tarring 5 pin single iron arms complete with a set of brace_strops, bolts and Nuts etc.	No.	6	12-0-0	72-0-0
7.	-do- 4-pin single as above.	No.	1	10-0-0	10-0-0
8.	Supplying & fixing pin type insulators and pins	No.	3	2-8-0	7-8-0
9.	-do- -do- strain insulators with 7 strand guy wire and accessaries.	No.	30	2-8-0	75-0-0
10.	-do- fixing guy sets complete with anchor, rod, 7 strand guy wire and turn buckle.	No.	4	20-0-0	80-0-0
11.	Supplying and stringing 3-phase over-head line using No.1/0 B&S hard drawn copper wire & accessaries (Heating to rear wing)	Ft.	800	per ft. 0-6-9	337-8-0
12.	-do- Single phase overhead line, using No.6 B&S hard drawn copper wire & accessaries (Lighting to rear wing)	Ft.	550	per ft. 0-4-0	137-8-0
13	Supplying fixing T.W.Board.6'x4' made of 1" thick planks, on an angle iron frame work, with tie rods etc.provided for the full size at both ends, with ¼" thick compressed cement asbestas sheet, and equipped with:-				
	a) One, T.P.S.T. Iron clad switch with fuses, 100 amps.for the Main control of Heating.				
	b) Three D.P.S.T. Iron clad switches with fuses 60 amps.for the distribution of Heating.				
	c) One D.P.S.T. iron clad switch with fuses 30 amps.for the main control of lighting.				
	d) Three D.P.S.T.iron clad switches with				

fuses 15 amps.for the distribution control of lighting.

e) Two pilot lamps 20 Watts 220 V.B.C. protected by a S.P.fuse unit each and controlled by S.P.5 amps.tumbler switches and providing two sets (one of 3 phase and 1 of single phase) copper bus of the section 1"x1/8" tinned, for lighting and heating distribution, at the rear of the panel board, with suitable insulated supports and wiring using Nos. 19/.083, 7/.064 and 7/.036 and 3/.036 S.W.G.660Voltsgrade insulated wires & accessaries. (The Panel to be erected 18" from the wall) No. 1 620-0-0 620- 0-0

14. Earthing the sub plan piping at both ends, I.C.Switch gear on the sub distribution panel, providing a ground bus at the rear (copper tape tinned 1"x1/16") 4 connect up all the I.C. switches etc., No.6 B&S tinned copper wire, clamps, bolts and Nuts and accessaries. No. 2 55-0-0 110-0-0

3374-8-0

Part III Interior Lighting.

1. Supplying, fixing and wiring in T.W. casing 2"x1" treated with 2 coats of shelloc vannish for lighting outlets complete with 5 amps.control switches (similar to "pet") using No.7/.036 and 1/.064 S.W.G.660 volts grade insulated wires for mains and tops respectively and accessaries. No. 49 41-10-0 2039-10-0

2. -do- -do- for wall receptacles complete with 2 pin 5 amps.combined wall plugs with switch & Nipple (Similar to crabtree), as per above specification. No. 18 33-0-0 594-0-0

3. -do- -do- for lighting outlet as per item 1, with 2 of 2-way staircase control switches as per specification above. No.1 46-0-0 46-0-0

2679-10-0

Part IV Lighting fixtures.

1. Supplying fixing & wiring counter weight pendents, complete with 2 plate porcelein ceiling rose, china counterweight with ring, pully, lead shots, adequate length of twin flexible cord, B.C.C.G.O.C. lamp holder, R.L.L.reflector, 1 1/8" hole, 14" diameter, similar to GEC cat.No.F.4755, using necessary accessaries (Operation Theatre and Labour Wards) No. 2 50-0-0 100-0-0

2. -do- -do- for C.C Brackets

B/f 100-0-0

	Brackets 9"x$\frac{1}{2}$" complete with stout back plate B.C.lamp holder 10"x$3\frac{1}{4}$" tin enamelled shade, using necessary accessaries. -	No.	13	5-0-0	65-0-0
3.	-do- -do- Water tight fittings complete with Goose neck cast irons enamelled reflection, B.C.lamp holder well glass etc. similar to GEC Cat. No.F 4895, using necessary accessaries	No.	5	28-0-0	140-0-0
4	Supplying, fixing and wiring Hailware pendent fittings H-2, complete with B.C. lamp holder, ceiling plate 10 ft.of suspension chain, canopies 14" Glass ware, etc.using necessary accessaires.	No.	4	50-0-0	200-0-0
5.	Supplying fixing and wiring 5/8" silver lac brazed conduit pendents, complete with stout ceiling plate, B.C.lamp holder D.C. 10"x$3\frac{1}{4}$" tin enamelled shade. 3 ft. long.(for verandah, Bath room attached to wards, compouding & store room)	No.	14	10-0-0	140-0-0
6.	-Do- 13 to 14 feet long (prescribing room, preparation room & 1st floor)	"	7	25-0-0	175-0-0
7.	-do- 20 feet long (Examining room, spare room and Linen & bath room attached to rear wing)	"	5	33-0-0	165-0-0
8.	Supplying & fixing Lamps 60 watts 220V.B.C. gasfilled.	"	32	2-8-0	80-0-0
9.	Supplying & fixing Lamps 100 watts 220 V. B.C. gasfilled.	"	12	4-0-0	48-0-0
10.	-do- -do- 150 watts 220Volts B.C. gasfilled.	"	4	5-5-4	21-5-4
11.	-do- -do- 200 watts 220Volts B.C gasfilled	"	2	7-1-4	14-2-8
12.	Supplying hard Lamps shockproof with spun alluminium reflector, bakelite handle polished brass hook, B.C.lamp holder, 30 feet of unkinkable C.T.S. Twin flexible, & 40 watts 220V. B.C. gasfilled lamps.	"	4	40-0-0	160-0-0
					1308-8-0

Part V Heating Circuits.-

1.	Supplying fixing and wiring in 2$\frac{1}{2}$"x1" T.W. casing 2-way treated with 2-coats of shelloc varnish for heating outlets complete with T.W.Board 12"x12"x1" with batteries and rear board, interior & exterior all lined with $\frac{1}{4}$" thick compressed cement abbestas sheet, mounted with a 15 amps. D.P.S.T.iron clad switches with fuses, using No.7/.064 S.W.G.and 7/.044 S.W.G. insulated wires 660Volts grade for Mains and tops respectively and accessaries. (Main Block & 2 wards)	No.	6	155-0-0	930-0-0
2.	-do- -do- as above using No.19/.052				

	No.19/.052 S.W.G. & 7/.064 S.W.G. 660 volts grade insulated wires for Main and tops respectively and accessaries. (Rear block & 2 wards)	No. 9	142-0-0	1278-0-0
3.	-do- -do- with T.W.Board 15"x12"x1" as above, mounted with 30 Amp.D.P.S.T. ironclad switch with fuses, as per specification as above (serilizing room)	2	152-0-0	304-0-0
4.	Earthing the Iron clad switches-			
a)	for group of 9 in rear wing - 1.			
b)	wards rear wing. - 2			
c)	wards Main block. - 2			
d)	Dressing room main block - 2			
e)	compounding room & first floor in group of 2. - 1	No. 8		275-0-0
				2787-0-0,

Abstract

Part I	...	3124-13- 6
Part II	...	3374- 8- 0
Part III	...	2679-10- 0
Part IV	...	1308- 8- 0
Part V	...	2787- 0- 0
Total	...	13274- 7- 6
Contingencies @ 5%		663-11- 7
Establishment & tools & plant charges @ 18%	---	2508-14- 0
Grand total:		16,447-1-1 of
		16,447 only.

Rupees sixteen thousand and four hundred & forty seven only.

Certified that I have personally verified the input and prepared the estimate using prevailing market rates preparing by the most economical and rapid way of executing the work.

R A Francis for S C

1646 / Approved by the Secretary to Govt PWD 17/3/45

1446, Vide G.O No 9043-46/S&B 3445-631. dated 27 June 1946

Countersigned.

RAF/KRV.

Executive Engineer, Havelock Division

Chief Electrical Engineer 31/3

R A Francis for S C
Superintendent, H.P.&L.
17/3/46

for Chief Engineer, Mysore
for Retd Bdlys
SSh

C C - R. Veeraraghavan
Executive Engineer 12/4/46
Havelock Division

	Brackets 9"x2" complete with stout back plate B.C.lamp holder 10"x8¼" tin enamelled shade, using necessary accessaries. -	No.	13	5-0-0	65-0-0
3.	-do- -do- Water tight fittings complete with Goose neck cast irons enamelled reflection, B.C.lamp holder well glass etc. similar to GEC Cat. No.F 4895, using necessary accessaries	No.	5	28-0-0	140-0-0
4	Supplying, fixing and wiring Hailware pendent fittings H-2, complete with B.C. lamp holder, ceiling plate 10 ft.of suspension chain, canopies 14" Glass ware, etc.using necessary accessaires.	No.	4	50-0-0	200-0-0
5.	Supplying fixing and wiring 5/8" silver lac braized conduit pendents, complete with stout ceiling plate, B.C.lamp holder D.C. 10"x3¼" tin enamelled shade. 3 ft. long.(for verandah, Bath room attached to wards, compouding & store room)	No.	14	10-0-0	140-0-0
6.	-Do- 13 to 14 feet long (prescribing room, preparation room & 1st floor)	"	7	25-0-0	175-0-0
7.	-do- 20 feet long (Examining room, spare room and Linen & bath room attached to rear wing)	"	5	33-0-0	165-0-0
8.	Supplying & fixing Lamps 60 watts 220V.B.C. gasfilled.	"	32	2-8-0	80-0-0
9.	Supplying & fixing Lamps 100 watts 220 V. B.C. gasfilled.	"	12	4-0-0	48-0-0
10.	-do- -do- 150 watts 220Volts B.C. gasfilled.	"	4	5-5-4	21-5-4
11.	-do- -do- 200 watts 220Volts B.C gasfilled	"	2	7-1-4	14-2-8
12.	Supplying hard Lamps shockproof with spun alluminium reflector, bakelite handle polished brass hook, B.C.lamp holder, 30 feet of unkinkable C.T.S. Twin flexible, & 40 watts 220V. B.C. gasfilled lamps.	"	4	40-0-0	160-0-0
					1308-8-0

Part V Heating Circuits.

1.	Supplying fixing and wiring in 2½"x1" T.W. casing 2-way treated with 2-coats of shelloc varnish for heating outlets complete with T.W.Board 12"x12"x1" with batteries and rear board, interior & exterior all lined with ¼" thick compressed cement abbestas sheet, mounted with a 15 amps. D.P.S.T.iron clad switches with fuses, using No.7/.064 S.W.G.and 7/.044 S.W.G. insulated wires 660Volts grade for Mains and tops respectively and accessaries. (Main Block & 2 wards)	No.	6	155-0-0	930-0-0
2.	-do- -do- as above using No.19/.052				

REPORT to accompany the modified Estimate for Installing Electric lights and Heating Circuit to Col.Crawford Hospital at Sakalespur.

Reference:- Letter No.2559 dated 6-6-1944 from the Executive Engineer, Hassan Division, Hassan, to the General Superintendent, C.P.S. Bangalore.

The Modified estimate, has been based on the requirements of the Senior Surgeon in Mysore, Bangalore, received with the letter referred to above.

It is seen that the construction of one of the wards, and the rear wing has not progressed. On the information supplied by the Assistant Engineer in charge of the Building on the 6th inst. that the construction will be pushed through and completed by the end of this official year, a consolidated estimate has been prepared both for the lighting etc. of the Main and rear blocks.

50 lighting and 18 wall plug, and 17 Heating out-lets have been proposed in this estimate, as against, 95, 21 and 24 provided for in the original Estimate. Assuming that the capacity of Heaters and Sterilizers will be of 2 K.W. capacity each and of Linen sterilizers in the Operation theatre and Labour wards will be of 3 K.W. each, the estimated load comes up to 36 K.W. from the Heating and about 5 K.W. from the lighting of the entire Installation. Of the Heating Load about 60 per cent will be from the rear block viz., Operation theatre, and Labour Ward and the rest from the wards and Administrative Block.

It is expected that the heating load, will be at its peak only during day, at the operation theatre and Labour ward. It is with this reasoning that the Main and control equipment are designed for a Maximum and continuous load of about 30 K.W. proposing 3 phase distribution system.

3 phase power supply will be extended from the Govt.pole existing at a distance of about 80 feet from the Building, by means of over head line, locating a New pole near the building. The Mains are further carried with insulated wires of adequate capacity enclosed in suitable pipe embedded in the wall. In view of the long distance, the Mains have to be carried. Inspection boxes have been introduced at intervals of 20 feet to facilitate drawing in the wires and inspection.

A main and control board, with equipment detailed against item 7 of Part I will be erected in the ground floor of the compounding room below the R.C.C. staircase, being the only place best suited for the purpose. Sub Main to the rear block will be extended therefrom partly in T.W. casing of special manufacture, and partly in pipes and overhead system.

A sub control board, for the Distribution of lighting and heating will be erected on the same lines in the main board, equipped with the control gear etc., as detailed against item 13 of Part II, at the preparation room attached to the Labour Ward. Any inconvenience that may be caused by the installation of the board in the said place, has to be put up with there being no suitable place for the location of the same.

The system of distribution, adopted in the cases of lighting and heating is such so as to admit additions without alteration to the system at a future date and at a small cost towards the fixtures required to be added, there being adequate capacity in the wires and switch gear proposed to be employed.

In respect of the wards, fittings with globes to afford diffused lighting have been proposed. In order to facilitate adjustment of

10

lights to the height desired, two counterweight (adjustable) have been provided for the Operation Theatre and Labour Wards.

The fittings proposed for other portion of the Building are of ordinary type, with a view to keep down the cost.

4 portable lamps with adequate length of unkinkable wires to move about in the wards, have been provided in the estimate, for use in the wards and other places.

This estimate does not provide for the supply of any heating apparatus and shadowless lamps and any requirements have to be obtained for by the Medical authorities to meet their needs.

The system of wiring proposed in general will be in T.W. casing being best suited for the building.

The energy consumption will be measured by meters installed independently for Lighting and Heating and the Medical authorities billed for at the schedule of rates prescribed in each case.

The enclosed sketch is self explanatory, as to the details contemplated.

RAF/KRV.

R A Francis Joseph
Superintendent, H.P.&L.
17/8/45

M R Ayyar 31/3
Chief Electrical Engineer.

C.C. R. Neishaamuth
Executive Engineer
Harbour Division
12/4/45

REPORT to accompany the modified Estimate for Installing Electric lights and Heating Circuit to Col.Crawford Hospital at Sakaleapur.

Reference:- Letter No.2559 dated 6-6-1944 from the Executive Engineer, Hassan Division, Hassan, to the General Superintendent, C.P.S. Bangalore.

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It is seen that the construction of one of the wards, and the rear wing has not progressed. On the information supplied by the Assistant Engineer in charge of the Building on the 6th inst. that the construction will be pushed through and completed by the end of this official year, a consolidated estimate has been prepared both for the lighting etc. of the Main and rear blocks.

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3 phase power supply will be extended from the Govt.pole existing at a distance of about 80 feet from the Building, by means of over head line, locating a New pole near the building. The Mains are further carried with insulated wires of adequate capacity enclosed in suitable pipe embedded in the wall. In view of the long distance, the Mains have to be carried. Inspection boxes have been introduced at intervals of 20 feet to facilitate drawing in the wires and inspection.

A main and control board, with equipment detailed against item 7 of Part I will be erected in the ground floor of the compounding room below the R.C.C. staircase, being the only place best suited for the purpose. Sub Main to the rear block will be extended therefrom partly in T.W. casing of special manufacture, and partly in pipes and overhead system.

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The system of distribution, adopted in the cases of lighting and heating is such so as to admit additions without alteration to the system at a future date and at a small cost towards the fixtures required to be added, there being adequate capacity in the wires and switch gear proposed to be employed.

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lights to the height desired, two counterweight (adjustable) have been provided for the Operation Theatre and Labour Wards.

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The enclosed sketch is self explanatory, as ~~ha~~ to the details contemplated.

RAF/KRV.

31/3

RA Francis
Superintendent, H.P.div.
17/8/45

Sd/- M.R. Krishna murthy
Executive Engineer,
Hassan Division.

Report to accompany the modified Estimate for Installing Electric lights and Heating Circuit to Col.Crawford Hospital at Bakalapur.

References:- Letter No.2559 dated 6-6-1944 from the Executive Engineer, Hassan Division, Hassan, to the General Superintendent, C.P.S. Bangalore.

The Modified estimate, has been based on the requirements of the Senior Surgeon in Mysore, Bangalore, received with the letter referred to above.

It is seen that the construction of one of the wards, and the rear wing has not progressed. On the information supplied by the Assistant Engineer in charge of the Building on the 6th inst. that the construction will be pushed through and completed by the end of this official year, a consolidated estimate has been prepared both for the lighting etc. of the main and rear blocks.

50 lighting and 18 wall plug, and 17 Heating out-lets have been proposed in this estimate, as against, 35, 21 and 24 provided for in the original estimate. Assuming that the capacity of Heaters and sterilizers will be of 2 K.W. capacity each and of Linen sterilizers in the Operation threatre and Labour wards will be of 3 K.W. each, the estimated load comes up to 38 K.W. from the Heating and about 5 K.W. from the lighting of the entire Installation. Of the Heating load about 60 per cent will be from the rear block viz., Operation theatre, and Labour Ward and the rest from the wards and Administrative Block.

It is expected that the heating load, will be at its peak only during day, at the operation theatre and Labour ward. It is with this reasoning that the Main and control equipment are designed for a Maximum and continuous load of about 30 K.W. proposing 3 phase distribution system.

3 phase power supply will be extended from the Govt.pole existing at a distance of about 80 feet from the Building, by means of over head line, locating a New pole near the building. The Mains are further carried with insulated wires of adequate capacity enclosed in suitable pipe embedded in the wall. In view of the long distance, the Mains have to be carried. Inspection boxes have been introduced at intervals of 20 feet to facilitate drawing in the wires and inspection.

A main and control board, with equipment detailed against item 7 of Part I will be erected in the ground floor of the compounding room below the R.C.C. Staircase, being the only place best suited for the purpose. Sub Main to the rear block will be extended therefrom partly in T.W. casing of special manufacture, and partly in pipes and overhead system.

A sub control board, for the Distribution of lighting and heating will be erected on the same lines in the main board, equipped with the control gear etc., as detailed against item 13 of Part II, at the preparation room attached to the Labour Ward. Any inconvenience that may be caused by the installation of the board in the said place, has to be put up with there being no suitable place for the location of the same.

The system of distribution, adopted in the cases of lighting and heating is such as to admit additions without alteration to the system at a future date and at a small cost towards the fixtures required to be added, there being adequate capacity in the wires and switch gear proposed to be employed.

In respect of the wards, fittings with globes to afford diffused lighting have been proposed. In order to facilitate adjustment of

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G. R. S. App. F VI—G. 2]

SUBJECT. Installing Electric lights Heating circuit to Col. Crawford Hospital at Sakleshpur.

Diary No. of letter replied to 354

Section Elect

File No. 42—46.

Serial No. 6.

General and Revenue Secretariat

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the 19 .

Proceedings of the Government of His Highness the Maharaja of Mysore.

Date of issue 11/9/ 1946.

Signed by Sri P. Krishnaraja

Read— Letter No-6195 dated the 16/23rd August 1946 from the C.E.E. forwarding for technical sanction an estimate for Rs. 16,467/- (Rupees sixteen thousand four hundred and forty seven Only) for installing electric lights Heating circuit to Col. Crawford Hospital at Sakleshpur.

May this be—

(i) printed?

(ii) treated as a standing order?

(iii) published in the Gazette, English Part?

(iv) translated?

(v) placed at the disposal of the Press?

(vi) published in the Gazette, Kannada Part?

~~Order thereon:-~~ No

for which estimate has been asked in G.O.M. P.W.D. 9045-46/B3-45-131 dated 27-6-46

Order No. EDS. 697-99/Elect 42-46

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Sanctioned.

KW 6 9/46

Secretary to Govt. / Electrical Dept

To 4/9

The GR. (with a copy of the estimate)

The Comptroller to Govt.

The Auditor, Elect. Dept. (with a copy of the estimate)

List of Enclosures

Copied by

Examined by

WD 03696—GPB—30,000—2-2-40